
Vendor Supplier Forum Quality Assurance Requirements for Work at Y-12

C. H. Moseley, Jr.
Quality Programs

August 3, 2006



Outline

- BWXT Y-12 Expectations
- Program
- Supplier Responsibilities
- Terminology
- Special Requirements
- Point of Contact

Supplier Quality (SQ) Expectations

- BWXT Y-12 expectations for Supplier quality performance include:
 - Supplier Commitment to Quality – at all levels
 - Effective, Mature, and Compliant, Supplier Quality Assurance Program Implementation
 - Full Compliance to Purchase Order (PO) Technical Requirements
 - Clear, Timely, and Frequent Communication – utilizing established lines of communication
 - Compliant and Defect-Free Material and Services delivered, the first time
 - Compliant and Defect-Free Documentation delivered, the first time

Supplier Quality (SQ) Expectations (cont'd)

- Products and services provided by the supplier will meet technical and QA requirements in the procurement documentation (specification)
- Supplier must recognize the supply of non-conforming safety significant materials and equipment is not a business-as-usual condition
 - Failure to effectively implement, monitor, and assess the Supplier QA requirements of the procurement
 - Failure to read and understand all PO requirements
 - Failure to comply with all PO requirements
 - Failure to effectively flow down requirements to sub-tiers

Supplier Quality (SQ) Expectations (cont'd)

- Some recent experiences:
 - Failure to identify, communicate or pass PO technical requirements across affected elements of the Supplier organization
 - Failure to identify, flow and enforce PO technical requirements through the supply chain
 - Failure to confirm assumptions or clarify conflicting, ambiguous, and/or vague PO technical requirements

Supplier Quality (SQ) Expectations (cont'd)

- Consequence of Failure
 - Delayed Material and Equipment Shipments
 - Delayed Invoice Payment
 - Backcharge
 - Suspension of Work
 - Increased cost to the Government
 - Unsatisfactory Supplier Performance Rating via STR Program review
 - Potential for DOE PAAA regulatory enforcement actions
 - Negative publicity

Supplier Quality (SQ) Program

- The BWXT Y-12 Supplier Quality Program assures the quality and acceptability of those procured items and services designated as safety significant
- The methods frequently used are:
 - planned supplier (or sub-tier) visits or surveys
 - historical performance
 - audit,
 - source verification, and
 - receipt inspection activities
- Other methods may be used or as specified in the procurement document technical documentation

Supplier Quality Assurance Responsibilities

- Quality Assurance measures to be implemented by the supplier are included as technical requirements within the procurement documentation
- Some procurements require substantial quality assurance measures. For example, procurements involving safety-related items, such as SSC's, normally specify QA measures, and documentation.
- Some procurements require limited quality assurance measures. For example, commercial items for office use.
- The supplier is responsible to identify and perform QA measures in the procurement documentation, and this often includes preparation of documentation, such as inspection reports, certificates of conformance, material test reports, personnel qualifications, etc.

Supplier Quality Assurance Responsibilities (cont'd)

- The BWXT Y-12 Supplier Quality Program is intended to independently verify the achievement of quality by the supplier
- The existence of nonconforming conditions, supplier QA Program deficiencies, excessive rework, and other discrepancies, are indicators that BWXT Y-12 expectations for supplier quality performance have not been met.
- The supplier's Compliance with the quality requirements is the basis for assuring that safety significant materials and equipment will perform their intended function. BWXT Y-12 may or may not independently verify the supplier's results, but the responsibility to provide a quality service or product remains with the supplier.

Terminology Used in Procurement Specifications

- **Structures, Systems, and Components (SSCs)**
 - Structures are elements that provide support or enclosure such as buildings, free standing tanks, basins, dikes, and stacks.
 - Systems are collections of components assembled to perform a function such as piping, cable trays, conduit, or heating, ventilation, and air conditioning.
 - Components are items of equipment such as pumps, valves, relays, dollies or carts, or elements of a larger array such as computer software, lengths of pipe, elbows, or reducers.
- **Safety-Significant Structures, Systems, and Components (SS-SSCs)**
 - Systems, structures and components not designated as safety-class SSCs but whose preventive or mitigative function is a major contributor to defense in depth (i.e. prevention of uncontrolled material releases) and/or worker safety as determined from safety and/or hazard analysis. SS-SSCs are designated for the prevention or mitigation of nuclear hazards.

Special Requirements

- Price Anderson Amendments Act (PAAA)
- Suspect/Counterfeit Parts

Supplier Quality (SQ) Resources

- BWXT Y-12 Subcontract Administrator
- Subcontract Technical Representative (STR)
- BWXT Y-12 Procurement Quality
 - Ty Nemeth
 - 574-9519
 - nemethjr@y12.doe.gov